ABDULLAYEV, G.B.; ALIYEV, G.M.; HASHSHALIYEV, A.A.; KERIMOV, I.G.

Heat conductivity of some compounds of the type AIIIBV. Trudy Inst. fiz.
AN Azerb. SSR 11:46-51 '63. (MIRA 16:4)

(Semiconductors—Thermal properties)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721530004-9"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721530004-9

ACC NR: AP7003335

SOURCE CODE: UR/0076/65/040/012/3036/3089

AUTHOR: Mamodov, K. K.; Korimov, I. G.; Mokhtiyev, M. I.; Veliyev, M. I.

ORG: Physics Institute, Academy of Sciences, AzorbSSR (Institut fiziki Akademii nauk AzerbSSR)

TITLE: Thermodynamic studies at low temperatures

SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 12, 1966, 3086-3089

TOPIC TAGS: solonium, heat capacity, entropy, enthalpy, heat conductivity, themoly-

ABSTRACT: The heat capacity c_p of amorphous selenium was measured at 147 points in the range of 56-332 °K. An anomalous increase of the heat capacity around the glass transition temperature was established, and it was found that $T_g = 303.4$ °K. In the 56-150 °K range, the results obtained obey Tarasov's equation for noninteracting chains.

 $c_{i} = D_{i}(\Theta_{i}/T) = 6R(T/\Theta_{i}) \int_{0}^{\Phi_{i}/T} \frac{xdx}{e^{x} - 1} - 3R(\Theta_{i}/T)[\exp{\{\Theta_{i}/T\}} - 1]^{-1},$ (1)

where $\theta_1 = h \nu_{max}/k$ and $x = h \nu / kT$, with $\theta = 364 \, ^{\circ} K$. It was found that the hole part of the thermal conductivity is equal to 14.53 J/g atom deg, and depends on the cooling rate of the sample. The following quantities were determined:

Card 1/2

UDC: 541.11

ACC NR APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721530004-9"

 $s_{0-298,16} = 48.40^{\pm}0.80 \text{ J/g atom deg,}$

 $H_{298.16} - H_{54} = 5340 \pm 10 \text{ J/g atom.}$

Orig. art. has: 2 figures, 2 tables and 3 formulas.

SUB CODE: 07/ SUBM DATE: 17Nov65/ ORIG REF: 003/ OTH REF: 006

Card 2/2

31515 S,758/61/000/010/077/100 A001/A101

26.253 2 AUTHORS:

Eliyev, G.M., Eliyev, B.D., Kerimov, I.K.

等。 第二章

TITLE:

Temperature dependence of heat conductivity of selenium with cadmium admixture

PERIODICAL: Referativnyy zhurnel. Pizika, no. 10, 1961, 252, abstract 10E182 ("Izv. AN AzerbSSR. Ser. fiz.-matem. i tekhn. n.", 1960, no. 6, 99-104, Azerb., Russian summary)

TEXT: Heat conductivity (λ) of amorphous and crystalline selenium was studied in the temperature range from 84 to 373°K by the stationary method, as well as effect on it of Cd admixture and its dependence on temperature. It was found that with increasing Cd content up to 0.125% the λ -value of Se decreases attaining a minimum, and increases again at a further increase of Cd, approaching its initial value. With decreasing temperature the λ -value of crystalline Se with Cd admixture grows, whereas that of amorphous Se decreases, the latter phenomenon being explained by a reduction of heat capacity.

[Abstracter's note: Complete translation]

Card 1/1

X

KAUFMAN, V.P.; KAZAROV, A.V.; KERIMOV, I.M.; PAL'YAN, S.A.

Economic effectiveness of the mechanization of underground well repair operations. Stor.nauch.-takh.inform. Azerb.inst.nauch.-takh.inform.Ser.naft.prom. nc.1:79-87 163.

(MIRA 18:8)

SOV/124-58-3-3263

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 3, p104 (USSR)

AUTHOR: Kerimov K.A.

TITLE: Experimental Investigation of Elastic-plastic Deformations Due to Longitudinal Impact (Eksperimental nyye issledovaniya

uprugo-plasticheskikh deformatsiy pri prodol'nom udare)

PERIODICAL: Dokl. AN AzerbSSR, 1956, Vol 12, Nr 10, pp 695-700

ABSTRACT: The dynamic stress-strain relationship (σ -vs- ϵ) under longitudinal impact was determined for unannealed aluminum.

Assuming the dynamic modulus of elasticity as equal to the static and assuming a single dynamic o- curve (for all loading rates), the author determines the required relationship by measuring the impact velocity and the residual strain. A similar problem was investigated by Johnson J. E., Wood D. S., and Clark D. S. (J. Appl. Mech., 1953, Vol 20, Nr 4,

pp. 523-529. RZhMekh, 1955, Nr 6, abstract 3227).

N. F. Lebedev

Card 1/1

SOV/124-58-2-2349

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 112 (USSR)

AUTHOR: Kerimov, K. A.

TITLE: The Transverse Impact on a Flexible Thread (Poperechnyy udar po

gibkoy niti)

PERIODICAL: Dokl. AN AzerbSSR, 1956, Vol 12, Nr 11, pp 799-801

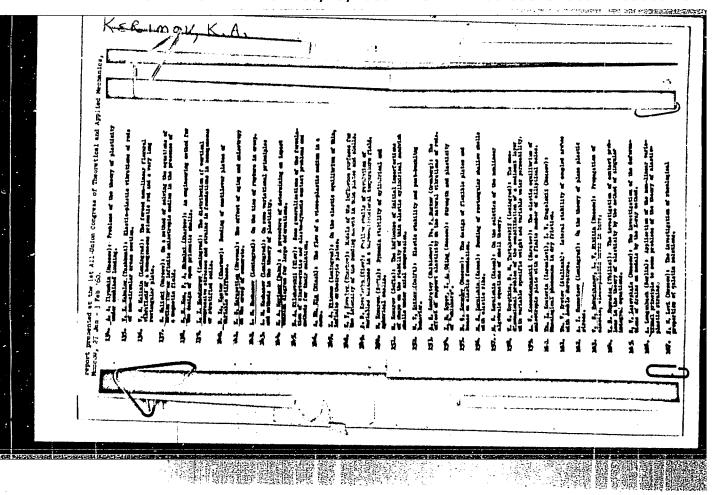
ABSTRACT: A compressed-air launcher was employed in the experiments. The tests showed that the hardness of the steel tip had an effect on

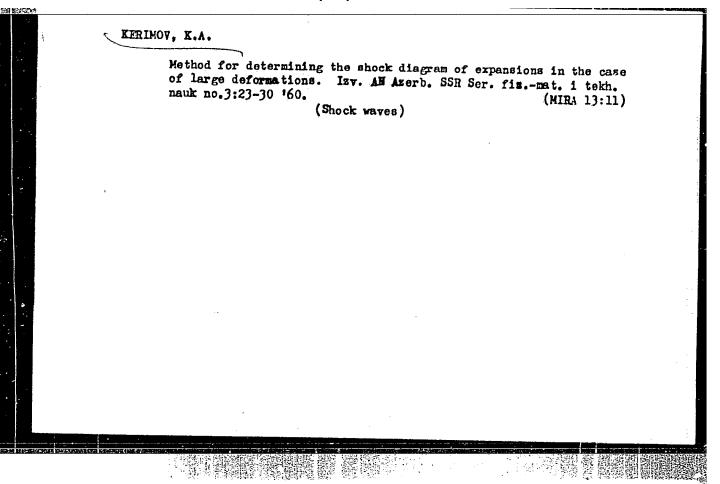
the critical failure speed at the point of impact. The presence of a necked-in portion showed that the rate of plastic deformation

may exceed the critical failure speed.

Reviewer's name not given

Card 1/1





24.4100

5/249/62/018/008/001/002 E031/E435

AUTHOR:

Kerimov, K.A.

TITLE:

The determination of the dynamic diagram T(e) for the

case of shock loading and unloading

en eggendom magatagning magnesagning mengangangan mengangan mengangan

PERIODICAL: Doklady Akademii nauk Azerbaydzhanskoy SSR, v.18, no.8,

1962, 7-11

In earlier work the author proposed methods for obtaining TEXT: the dynamic diagram T(e) for cases of loading and unloading when the deformations in the struck bodies are accompanied by weak fractures. The present paper treats the case of strong fractures, when shock waves occur. The case is considered of a body moving at the velocity vo which strikes an infinitely long flexible thread at a right angle. Taking shock loading first, 5 equations are established for the six unknowns: U (particle velocity), s (deformation), t (stretch), b (velocity of propagation of the transverse wave), c (velocity of propagation of the longitudinal wave) and γ (angle of deflection of the thread). A method is described for obtaining T = T(e) if the relation between v_0 and γ can be determined experimentally. Likewise, in the process of load Card 1/2

The determination of the dynamic ...

S/249/62/018/008/001/002 E031/E435

relief as the body is braked, there are 5 equations for the six unknowns and, if the relation between v_0-v_1 and γ_1 is known from experiment, the dynamic diagram can be obtained. Five different domains for the thread are distinguished, with the suffices 0, 1, 2, 3, 4. In the first case it is T_1 which is determined and in the second it is T_3 . In both cases, the method of computation applied permits experimental verification of the obtained dependence of T on e. There are 3 figures.

ASSOCIATION: Institut matematiki i mekhaniki

(Institute of Mathematics and Mechanics)

SUBMITTED: April 23, 1962

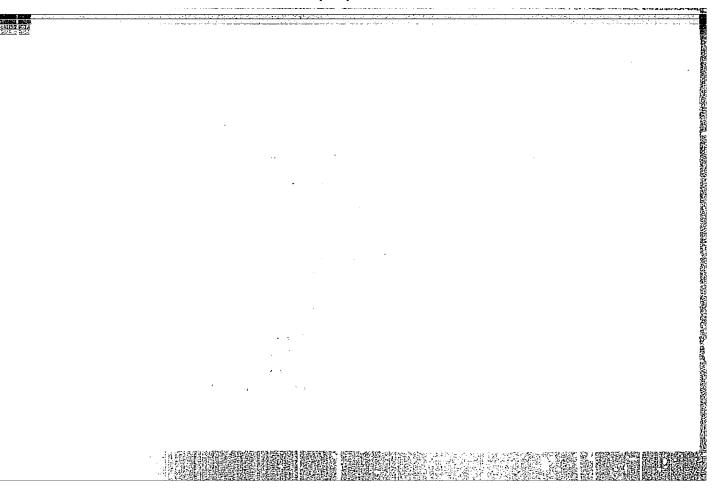
Card 2/2

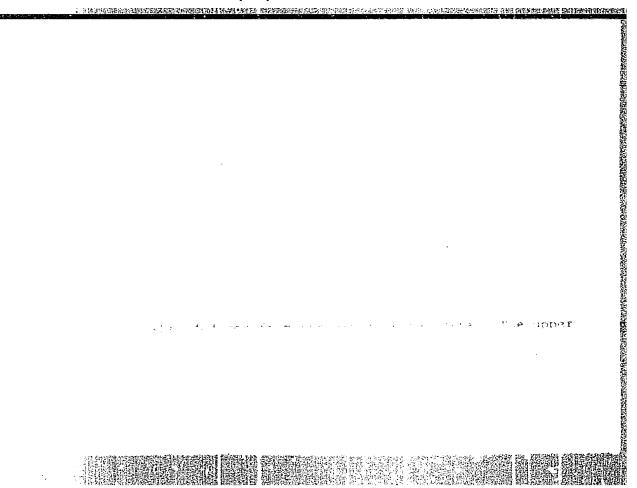
KERIMOV, K.A.

Determining the dynamic "stress - strain" curve with an inflection point. Dokl. AN Azerb. SSR 19 nd:4:11-16 '63. (MIRA 16:12)

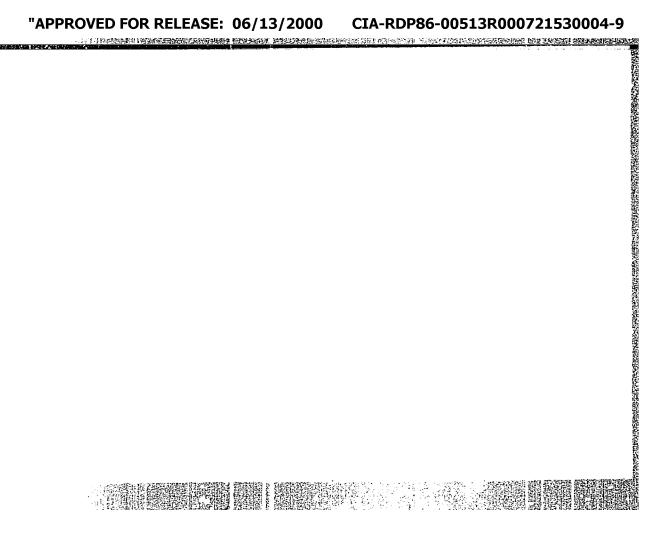
1. Institut matematiki i mekhaniki AN AzSSR. Predstavleno akademikom AN Uzbekskoy SSR Kh.A.Rakhmatulinym.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721530004-9"





APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721530004-9"



KERIMOV, K.A.

Method for determining the dynamic stress-strain relation with a bending point. Dokl. AN SSSR 162 no.5:1019-1022 Je 165. (MIRA 18:7)

1. Institut matematiki i mekhaniki AN AzerSSR. Submitted February 13, 1964.

TO SACREDULE MERKENINGHARANGHAR SPORESAY SACREDAY

KERIMOV, K.A.

Experimental study of the dynamic properties of materials using the method of unloading transverse impact. Dokl. AN SSSR 164 no.6:1246-1248 0 165. (MIRA 18:10)

1. Institut matematiki i mekhaniki AN AzerSSR. Submitted February 16, 1965.

IJP(c) L 29788-66 EWT(1)

ACC NRI AP6020863

SOURCE CODE: UR/0249/65/021/010/0008/0010

AUTHOR: Kerimov, K. A. ORG: Institute of Mathematics and Mechanics (Institut matematiki i mekhaniki) TITLE: Determination of the dynamic strain diagram with a variable striking velocity SOURCE: AN AzerbSSR Doklady, v. 21, no. 10, 1965, 8-10 TOPIC TAGS: motion mechanics, strain, material deformation, mathematic deduction, applied mathematics, pneumatic device, high speed camera ABSTRACT: A system is given for a dimensional analytic solution for motion along an infinite flexible filament struck transversely at a single point. Certain experimental results are given of an investigation of the dynamic

characteristics of materials whom the filament is struck transversely with a varying velocity. This is accomplished by placing the head of a pneumatically accolerated slug directly in contact with the test material. Thus, the shock grows from zero to the critical value. Motion in the sample is recorded by a high-speed motion picture camera. The dynamic law for o(E) derived for single variable-velocity shocks agrees with that derived from multiple shocks. This article was submitted by Academician AN AzerbSSR Z. I. Khalilovyy. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 20, 12, 13, 14 / SUBM DATE: 21Aug65 / ORIG REF: 005

Card 1/1 /V

<u>17.9</u>+22±27 Idf(c) $\operatorname{And}(\mathbf{n})/\operatorname{Ewr}(\mathbf{j})$ MV viii

ACC NRI AP6023946 SOURCE CODE: UR/0233/65/000/006/0034/0038

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R0007215/30004-9"

AUTHOR: Kerimov, K. A.; Teymurov, F. D.

ORG: none

TITLE: Investigation of viscous-elastic-plastic properties of polymer materials subjected to transverse impact

SOURCE: AN AzerbSSR. Izv. Ser fiz-tekhn i matem n, no. 6, 1965, 34-38

TOPIC TAGS: polymer, caprone, polyvinyl chloride, solid viscosity, elastic wave, plasticity

ABSTRACT: This is a continuation of earlier dynamic tests on polymer materials (rubber, caprone, polyvinyl (Tr. Vsesoyuznogo simpoziuma po rasprostraneniyu uprugoplasticheskikh voln v sploshnykh sredakh, Baku, 1964 and elsewhere) where a model was proposed, unifying the elastic-plastic and viscous properties of polymers. This model is used to develop a procedure for the investigation of polymers with viscous-elasticplastic properties by using transverse impact. This method is based on knowledge of the time dependence of the tension, obtained by recording tension waves reflected from the points where the sample is secured, and integrating the corresponding equations with the aid of an electronic digital computer. The individual functions involved in this model, expressing the viscous and elastic-plastic properties of the polymer, can

Card 1/2

APPROVED FOR RELEASE! 08/13/2000 . red CIA-RDP86-00513R000721530004-9"

[Transactions of the Conference of Graduate Students of the Academy of Sciences of Aserbaijan] Trudy Nauchnoi konferentsii aspirantov Akademii nauk Aserbaidshanskoi SSR. Baku, Isd-vo Akadenauk Aserbaidshanskoi SSR, 1957. 402 p. (MIRA 12:6)

1. Hauchnaya konferentsiya aspirantov Akademii nauk Azerbaydsanskoy SSR. 5th, Baku, 1955. 2. Institut arkhitektury i iskusstva (for Kerimev). (Science---Collected works)

KERIMOV, K. B.

"Experimental and Clinical Data on the Length of Anesthetization During Rectal Surgery." Cand Med Sci, Acad Med Sci, USSR, 2 Feb 55. (VM, 21 Jan 55)

Survery of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

PROTOPOPOV, S.P., prof.; KERIMOV, K.B.

Anesthetizing properties of the benzoic ester of diethylaminoethanol. Akt. vop. obezbol. no.2:219-225 159. (MIRA 14:5)

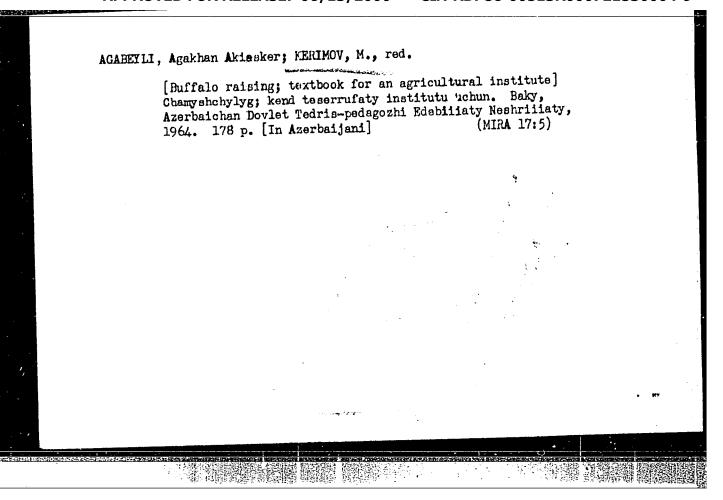
1. Iz Instituta khirurgii im. A.V.Vishnevskogo AMN SSSR (direktor - chlen-korrespondent AMN SSSR, zasluzhennyy deyatel' nauki RSFSR prof. A.A.Vishnevskiy).

(ETHANOL)

ABBUILLAYEV, A.P.; KERIMOV, H.M.

Lithological characteristics and oil and gas potential of the sediments of a producing formation on the Pirsagat area according to the data of well electrometry. Izv. vys. ucheb. zav.; neft' i gaz 8 no.2:7-9 165. (MIRA 18:3)

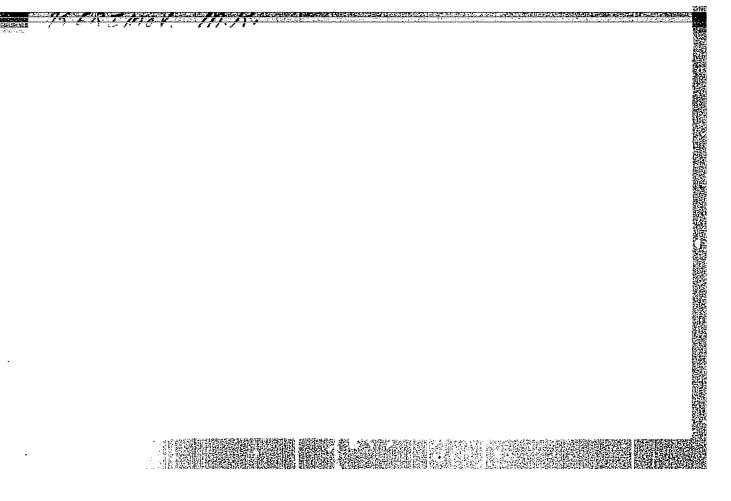
1. Azerbaydzhanskiy institut nefti i khimli im. M. Azirbekova.



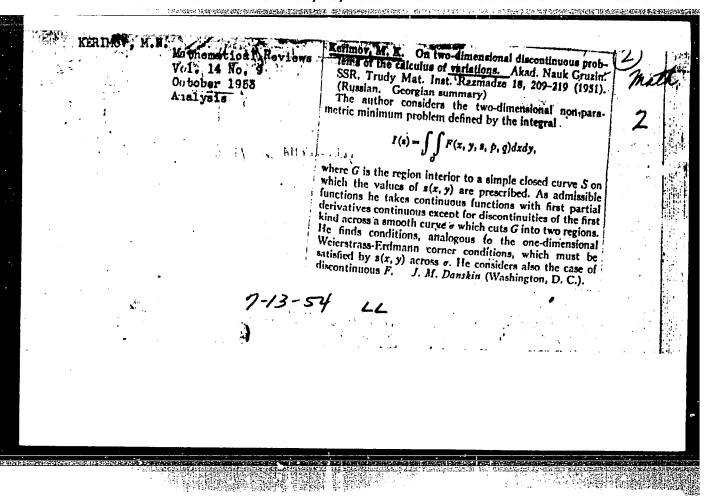
"Investigations Into the Theory of Discontinuous Mariational Problems With Movable Ends." Sub 11 Jun 51, Cathenatics Inst instit V. A. Steblov, Acad Sci MEST

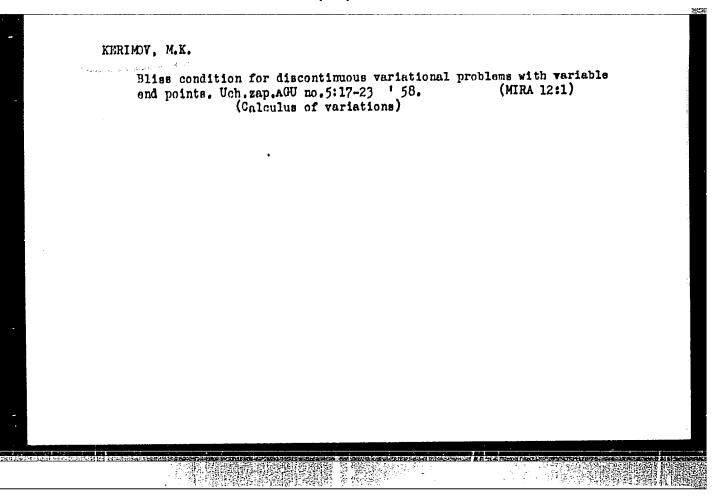
Discortations proported for science and endinormina decrees in Massow during 1 14.

So: Sua. No. 1/0, 0 Pay 55



		In current dirtion in Investigat applied in Bliss, "Le Bliss, "Le Bared into Acad N.A."		FERES 8		
•		In current article, dition in terms of investigations here upplied in ordinary lies, "Lectures on aced into Russian, cad M.A: Lavrent'ye	USSR/Mathematics		"Jacobi's Problems Math Inst	USSR/Mathematics
•		M T K P V G	.	Wiously (ibid. Vol LXXIX, No 5, pp 71 macessary conditions governing the ext discontinuous variational problem with rings, in which Jacobi's condition was definitely for the 2d variation of the 2d variation.	Tue Femile 140)
*		t article, at terms of foc terms of foc floors here re of ordinary value on Callette on Callette floors floors from the contraction of the contrac	#	Hau Baar Dati	8 7 8 0 4 4 0 0 4 4 4	E.
•		article, cerms of lons here ordinary tures on Russian, avrent'ye	ica	The course of th	Gondition for With Removable imeni Steklov	6
:	*	le, of f ere ere on on on on or		id.	iti Rem	2
		atter focal rely varis Calcu at Mo	6 l	the difference of the control of the	op oval	
:		attempts ical point rely esse variation Calculus at Moscow V 9 Jun 5	lculus (Contd)	Vol Hons Hons Jacob Jacob	for sole	1
		foral points and eige rely essentially on variational problems Calculus of Variatic at Moscow, 19507. Sev 9 Jun 51.	Calculus of Variations (Contd)	uk 8SSR" Vol LXXIX, No 5, pp 719-722 (1bid. Vol LXXIX, No 4, 1951) enumerary conditions governing the extrementational problem with remoins the Jacobi's condition was formations of the sign of the 2d variation.	Condition for Discontinuous With Removable Rings, M. K. imeni Steklov, Acad Sci USBR	Calonlus
		F >=	4	E SE	con ga,	g
		form and and lally probly varie		No 4, No 4, erning 1 probl condit	M. M.	
i		formulate this cand eigenvalue. Ally on the meth problems (cf. G. Variation" /Tran. 1950/. Submitted	t 10	X, No 5, pp 71 No 4, 1951) e erning the ext l problem with condition was the 2d waria	NSE	
	•	the many of the	E	7.57 4.0 (T)	R Ke	
	45 <u>1012</u>	Trans.	2) Ang	p 719-722 i) enumery extremum fith removing formula fightion.	Variatic Kerimov,	5
Š	<u> </u>	genvalues. In the methods In the methods In (cf. G. Ion" /Trans Submitted by	2)075 11 Ang 51	9-722 numera reacus reacus reacus reacus	Variational Kerimov,	
				# 5	į į	





16.4900

S/020/61/136/003/004/027 C 111/ C 333

AUTHOR: Kerimov, M. K.

TITLE: On the Theory of Discontinuous Variational Problems With Variable End-Points in the Space

PERIODICAL: Doklady Akademii nauk SSSR, 1961, Vol. 136, No. 3, pp. 542-545

TEXT: Let $(x, y_1, y_2, \dots, y_n) \equiv (x,y)$ be a point of the Euclidean E^{n+1} ; let R be a domain in E^{n+1} with the boundary S. Assume that the broken curve E_{102} lies in R, is composed of the curves E_{102} and is described by

$$y_{i} = y_{i}(x) \left(\begin{array}{c} \overline{y}_{i}(x), & x^{1} & x & x^{0} \\ \\ \overline{y}_{i}(x), & x^{0} & x & x^{2} \end{array} \right)$$
 $i = 1, 2, ..., n$

where y and y are unique and possess continuous first derivatives. E_{102} is assumed to be intersected in the points 1, 0, 2 by the n-dimensional manifolds M, M, M, where E_{10} does not touch M and M in 1 and 0, E_{02} does not touch M and M in 0 and 2. Assume Card 1/8

S/020/61/136/003/004/027 C 111/ C 333

On the Theory of Discontinuous Variational Problems With Variable End-Points in the Space

that the M be given by the equations

$$M^1: x=x^1(x_1,x_2,...,x_n) = x^1(x_1), y_1 = y_1^1(x_1,x_2,...,x_n) = y_1^1(x_1),$$

$$\mathbf{M}^{\circ} : \mathbf{x} = \mathbf{x}^{\circ}(\beta_{1}, \beta_{2}, \dots, \beta_{n}) \equiv \mathbf{x}^{\circ}(\beta), \ \mathbf{y}_{1} = \mathbf{y}_{1}^{\circ}(\beta_{1}, \beta_{2}, \dots, \beta_{n}) \equiv \mathbf{y}_{1}^{\circ}(\beta),$$

$$M^2 : x = x^2(\delta_1, \delta_2, ..., \delta_n) \equiv x^2(\delta), y_i = y_i^2(\delta_1, \delta_2, ..., \delta_n) \equiv y_i^2(\delta),$$

where α , β , β run through the bounded closed sets T_{α} , T_{α} , T_{β} , while $x^{1}(\alpha)$, $y^{1}_{1}(\alpha)$, $x^{0}(\beta)$, $y^{0}_{1}(\beta)$, $x^{2}(\beta)$, $y^{2}_{1}(\beta)$ \in $C^{-\frac{1}{3}}$ for $\alpha \in T_{\alpha}$, $\beta \in T_{\beta}$, $\beta \in T_{\alpha}$, and $\beta \in T_{\alpha}$ and $\beta \in T_{\alpha}$. Let $\beta \in T_{\alpha}$ and $\beta \in T_{\alpha}$ be the left and the right subdomain into which

Card 2/8

S/020/61/136/003/004/027 C 111/ C 333

On the Theory of Discontinuous Variational Problems With Variable End-Points in the Space

R+S is divided by M^0 , where S and S have a common part along M^0 . The author considers the function

$$F^{1}(x,y_{1},y_{2},..,y_{n},p_{1},p_{2},..,p_{n}),$$

$$F^{2}(x,y_{1},y_{2},..,y_{n},p_{1},p_{2},..,p_{n}),$$

$$F^{1} \in C^{(4)} \text{ for } (x,y) \in \mathbb{R}^{-} + \mathbb{S}^{-}, -\infty
$$F^{2} \in C^{(4)} \text{ for } (x,y) \in \mathbb{R}^{+} + \mathbb{S}^{+}, -\infty$$$$

Assume that G is the set of the functions $y_i(x)$ with the properties: a.) $y_i(x)$ are continuous; b.) the curves C_{102} described by these functions lie in R and consist of a finite number of regular arcs; c.) every C_{102} intersects the M , M , M simply, where it has a joint on M .

Problem: Let $E_{102} \in G$ with joint 0 be given. Which conditions E_{102} Card 3/6

S/020/61/136/003/004/027 C 111/ C 333

On the Theory of Discontinuous Variational Problems With Variable End-Points in the Space

must satisfy in order that the functional

(1)
$$J(y) = \int_{x^{1}(\alpha)}^{x^{0}(\beta)} F^{1}(x,y,y') dx + \int_{x^{0}(\beta)}^{x^{2}(\gamma)} F^{2}(x,y,y') dx$$

calculated along E_{10} has a relative minimum in the class of the admitted functions

Necessary condition I (Euler): In order that $E_{102} \in G$ gives a minimum to the functional J it is necessary that the arcs E_{10} and E_{02} satisfy the Euler equations in integral form.

Necessary condition II (Weierstraß):

$$E^{k}(x,y,y',Y') \geq 0$$

(k=1 corresponds to E_{10} and k = 2 to the arc E_{02}).

Card 4/8

89721 S/020/61/136/003/004/027 C 111/ C 333

On the Theory of Discontinuous Variational Problems With Variable End-Points in the Space

Necessary condition III (Legendre):

$$F_{y_i^l y_i^l}^k (x,y,y^l) \mathcal{J}_{i} \mathcal{J}_{i} \ge 0$$
 (i,j = 1,2,..., n).

The E₁₀₂ \in G with E₁₀, E₂₀ \in C⁽²⁾, along which the developed Euler equations are satisfied, while the discontinuity condition is satisfied in 0, is called broken extremal of J. If, moreover,

(2)
$$\left| F_{y_{i}^{i}y_{j}^{i}}^{k} \right| \neq 0 \quad (i,j = 1,2,...,n)$$

is satisfied, then E_{102} is called nonsingular broken extremal. The E_{102} which gives a minimum to J is a broken extremal.

Theorem 1: If 1.) in the point 1 of M^{1} , where it intersects the nonsingular broken extremal E_{102} ,

(6)
$$(F^1 - y_{ix}F_{y_{i}}^1) dx^1 + F_{y_i}^1 dy_i^1 = 0$$

Card 5/8

*

S/020/61/136/003/004/027 C 111/ C 333

On the Theory of Discontinuous Variational Problems With Variable End-Points in the Space

is satisfied; 2.) E_{102} does not touch M^1 and M^0 in 1 and 0, then there exists an n-parameter family of broken extremals

(9)
$$y_{1} = y_{1}(x, \infty_{1}, \infty_{2}, \dots, \infty_{n})$$

$$\equiv y_{1}(x, \infty), \quad x^{1}(\infty) \leq x \leq x^{0}(\beta), \quad (i = 1, 2, \dots, n)$$

$$y_{1}(x, \infty), \quad x^{0}(\beta) \leq x \leq x^{2}(\beta)$$

which is transversely intersected by M^1 in the neighborhood of point 1 and has the following properties: α .) (9) contains E_{10} for α =0; b.) the functions $y_1(x,\alpha)$, $y_1(x,\alpha)$ and their first and second derivatives with respect to α have continuous partial derivatives up to the second order in the points (x,α) which lie in a certain neighborhood of the corresponding points for α and α and α the

Card 6/8

S/020/61/136/003/004/027 C 111/ C 333

On the Theory of Discontinuous Variational Problems With Variable End-Points in the Space

(10)
$$\Delta(x, \alpha) = \int_{y_{i} \ell_{k}(x, \alpha)}^{\infty} for E_{10}$$

$$\Delta(x, \alpha) = \int_{y_{i} \ell_{k}(x, \alpha)}^{\infty} for E_{02}$$

$$k, i = 1, 2, ..., n$$

is =0 along E₁₀₂.

Definition: Points of the broken extremal E_{102} which correspond to the zeros of Δ (x,%) are called focal points of M on E_{102} (analogously for M²).

Theorem 2: Point 3 is assumed to be focal point of M^1 on the non-singular broken extremal E_{102} ; let the derivative of $\triangle(x,\infty)$ with respect to x in 3 be \neq 0. Then there exists a one-parameter family of broken extremals

Card 7/8

, X

S/020/61/136/003/004/027 C 111/ C 333

On the Theory of Discontinuous Variational Problems With Variable End-Points in the Space

which is transverse to M¹, contains E₁₀₂ for t = 0, and possesses an envelope D which touches E₁₀₂ in 3. The functions y₁, y₁ and x(t) have continuous derivatives in the neighborhood of the values x,t which correspond to the arcs E₁₀ and E₀₂. Necessary conition IV (Jacobi): In order that the nonsingular extremal E₁₀₂ with a single joint O gives a minimum to the functional J, it is necessary that there are no focal points of M¹ and M² between the points 1 and 2 on E 102. There are 5 references: 4 Soviet and 1 American. ASSOCIATION: Vychislitelinyy tsentr Akademii nauk SSSR (Computer Center of the Academy of Sciences USSR)

PRESENTED: July 12, 1960, by A. A. Dorodnitsyn, Academician SUBMITTED: July 7, 1960

Card 8/8

16.6800

27873 \$/020/61/140/001/006/024 C111/C222

AUTHOR:

Ü

Kerimov, M.K.

TITLE:

On the theory of the second variation for discontinuous variational problems in space

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 1, 1961, 41-44

TEXT: The author joins his earlier publication (Ref. 1, DAM 136, no. 3, 1961) and uses the notations of it. He investigates the second variation for discontinuous variational problems with movable ends in the multi-dimensional space (Ref. 1). It is assumed (as in(Ref. 1)) that the integrand of the integral J the minimum of which is sought has only one discontinuity surface.

Let E_{102} be the broken extremal which gives a minimum to J. For the calculation of the second variation of J the author generalizes a method of M. Morse (Ref. 3: The Calculus of Variations in the Large, Am. Math. Soc. Colloquium Publications, 18, N.Y., 1934). Let $\propto_h(a)$, $g_h(a)$,

 $\mathcal{V}_h(a)$ (h = 1,2,...,n) be functions belonging to the class $C^{(2)}$ for small

Card 1/8

27873 \$/020/61/140/001/006/024

On the theory of the second variation ... C111/C222

a. By a substitution into the primary conditions for the ends (Ref.1) and differentiation with respect to a , for a = 0 one finds the secondary conditions (A): $\frac{1}{2}$

conditions (A):
$$q_{i}^{1} = q_{i}(x^{1}) = c_{ih}^{1} \tau_{h}^{1}, \quad q_{i}^{2} = q_{i}(x^{2}) = c_{ih}^{2} \tau_{h}^{2},$$

$$q_{i}^{0-} = q_{i}^{0-}(x^{0}) = c_{ih}^{0-}t_{h}^{0}, q_{i}^{0+} = q_{i}^{0+}(x^{0}) = c_{ih}^{0+}\tau_{h}^{0} \quad (h, i=1, 2, ..., n)$$
(A)

where
$$q_{i}(x) = y_{a}(x,0)$$
, $\mathcal{T}_{h}^{1} = \mathcal{L}_{h}^{i}(0)$, $\mathcal{T}_{h}^{2} = \mathcal{K}_{h}^{i}(0)$, $\mathcal{T}_{h}^{0} = \beta_{h}^{i}(0)$, $\mathcal{T}_{h}^{0} = \beta_{h}^{i}(0)$, $\mathcal{T}_{h}^{0} = \beta_{h}^{i}(0)$,

$$G_{ih}^{o-} y_{ih}^{o}(0) - y_{ix}^{-}(x^{o})x_{h}^{o}(0)$$
, $G_{ih}^{o+} = y_{ih}^{o}(0) - y_{ix}^{+}(x^{o})x_{h}^{o}(0)$
(i,h = 1,2,...n; k = 1 or 2).

Card 2/8

27873 s/020/61/140/001/006/024 C111/C222

On the theory of the second variation ... C111/C222

According to (Ref. 1) the admissible curves

$$y_{i} = y_{i}(x,a) < y_{i}^{-}(x,a), \quad x^{1}(a) \leq x \leq x^{0}(a),$$
 $y_{i}^{+}(x,a), \quad x_{o}(a) \leq x \leq x^{2}(a),$
(1)

can be constructed which contain the given E_{102} . The $\gamma_i(x)$, τ_h^1 , τ_h^0 , τ_h^2 are denoted as variations of the family (1) along E_{102} . The expression

$$J''(0) = J_{2}(\gamma, \tau) = b_{h1}^{1} \tau_{h}^{1} \tau_{1}^{1} + (b_{h1}^{0-} + b_{h1}^{0+}) \tau_{h}^{0} \tau_{1}^{0} + b_{h1}^{2} \tau_{h}^{2} \tau_{1}^{2} + \int_{x}^{x^{0}} 2\omega^{1}(x, \gamma, \gamma') dx + \int_{x}^{x^{0}} 2\omega^{2}(x, \gamma, \gamma') dx$$
(2)

calculated with consideration of the primary conditions of transversality and discontinuity, where b_{h1}^k are certain expressions depending on F^1 , F^2 , is denoted as the second variation of J along E_{102} .

27873

S/020/61/140/001/006/024 C111/C222

On the theory of the second variation ...

Admissible variations $\eta_i(x)$, τ_h^1 , τ_h^0 , τ_h^2 $(x^1 \le x \le x^2)$ are such ones where the \mathcal{T} are constants and $\eta_1(x)$ on $x^1 \le x \le x^2$ everywhere belongs to the class $D^{(1)}$ with the exception of the point $x = x^0$ where it appears a discontinuity of first kind where it holds

$$\gamma_{i}^{0-} = c_{ih}^{0-} c_{h}^{0} , \gamma_{i}^{0+} = c_{ih}^{0+} c_{h}^{0} .$$
 (3)

Let the broken extremal E₁₀₂ which in the points 1,2 is intersected by the manifolds M¹, M², where the primary conditions of transversality are satisfied, satisfy the condition IV if for every admissible variational set which satisfies (A), $J_2(\gamma, \tau)$ is not negative along E_{102} .

Theorem 1: In order that E_{102} gives a minimum to the functional J it is necessary that it satisfies IV.

The secondary variational problem is defined analogous to the primary variational problem (Ref. 1); the $\eta_i(x)$ of the class D(1) with dis-

Card 4/8

27873

S/020/61/140/001/006/024 On the theory of the second variation ... C111/C222

continuities of first kind in $x = x^0$ serve as admissible functions; linear manifolds, N^1 , N^0 , N^2 with the equations (A) serve as manifolds M^1 , M^0 and M^2 . The $\mathcal{Q}_1(x)$, \mathcal{T}_h^1 , \mathcal{T}_h^0 , \mathcal{T}_h^2 which let $J_2(\mathfrak{F})$ become a minimum, satisfy

$$\frac{\mathrm{d}}{\mathrm{d}x}\omega_{i,i}^{1} - \omega_{i,i}^{1} = 0, \quad x^{1} \leq x \in x^{0}, \qquad (4)$$

minimum, satisfy
$$\frac{d}{dx}\omega_{i}^{1} - \omega_{i}^{1} = 0, \quad x^{1} \leq x \leq x^{0}, \quad (4)$$

$$J_{i}(\gamma) = \frac{d}{dx}C_{i}^{1} - \omega_{i}^{2} \leq \frac{d}{dx}\omega_{i}^{2} - \omega_{i}^{2} = 0, \quad x^{0} \leq x \leq x^{2}$$

$$(i = 1, 2, ..., n)$$

and the boundary conditions

$$C_{ih}^1 \zeta_i^1(x^1) = b_{hi}^1 \tau_i^1, \quad C_{ih}^2 \zeta_i^2(x^2) = -b_{hi}^2 \tau_i^2,$$
 (6)

$$C_{lh}^{0-}\zeta_{l}^{1}(x^{0}) - C_{lh}^{0+}\zeta_{l}^{2}(x^{0}) = -(b_{hl}^{0-} + b_{hl}^{0+}) \tau_{l}^{0} \quad (i, l, h = 1, 2, ..., n), (7)$$

Card 5/8

27873 S/020/61/140/001/006/024 C111/C222

On the theory of the second variation ... C111/C222

with the notations $\frac{1}{2}(x) = \omega_{ij}^{1}\left[x, i(x), \omega'(x)\right], \quad \frac{2}{2}(x) = \omega_{ij}^{2}\left[x, i(x), \psi'(x)\right] \tag{8}$

Theorem 2: For every extremal $\gamma_1^-(x)$, γ_h^1 ($x^1 \in x \in x^0$) of (4) which satisfies the first conditions (A) and (6) and which intersects N° there exists a unique extremal $\gamma_1^+(x)$, γ_h^0 ($x^0 \in x \in x^2$) of (5) which together with $\gamma_1^-(x)$ satisfies the conditions (3) and (7). The author introduces conic variables γ_1^- , γ_1^- with the aid of

$$\mathcal{F}_{i}^{k} = \omega_{\mathcal{F}_{i}}^{k}(\mathbf{x}, \mathbf{y}, \mathbf{y}^{*}) , \qquad (9)$$

linearly independent solutions of this system are investigated. Card 6/8

 $\frac{27873}{5/020/61/140/001/006/024}$ On the theory of the second variation ... C111/C222

The point corresponding to the value $x = x^3(x^3 \neq x^1, x^3 \neq x^0)$ of a non-singular broken extremal E_{102} which in the point 1 is transversal to M^1 is called a focal point of M^1 if (4)-(5)-(13) has a discontinuous solution $u_1(x)$ so that $u_1(x^3) = 0$, but not all u_1 vanish identically on $x^1 < x < x^3$. A focal point of M^2 is defined analogously. The condition of Jacobi (condition IV) of (Ref. 1) is improved as follows: In order that a non-singular broken extremal E_{102} with the single corner point 0 being transversal to M_1 and M_2 gives a minimum to the functional J it is necessary that between the points 1 and 2 on E_{102} there exist no focal points of M^1 and M^2 . There is 1 Soviet-bloc and 2 non-Soviet-bloc references. The references to the two English-language publications read as follows: N. Cole, Am.J.Math., 62, no. 2, (1940); M.Morse, The Calculus of Variations in the Large, Am.Math.Soc.Colloquium Publications, 18, N.Y., 1934.

Card 7/8

27873

s/020/61/140/001/006/024

On the theory of the second variation ... C111/C222

ASSOCIATION:

Vychislitel'nyy tsentr Akademii nauk SSSR (Computing

Center of the Academy of Sciences USSR)

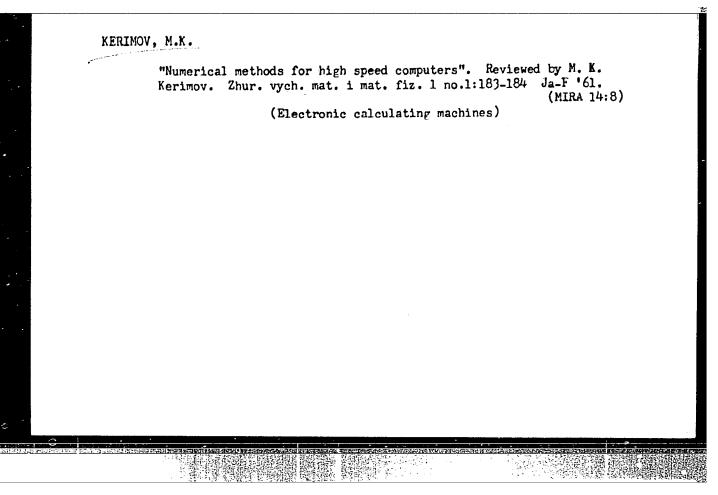
PRESENTED:

March 6, 1961, by A.A. Dorodnitsyn, Academician

SUBMITTED:

March 3, 1961

Card 8/8



KERIMOV, M.K.

"Numerical analysis" by Z.Kopal. Reviewed by M.K.Kerimov. Zhurvych.mat.i mat.fiz. 2 no.3:509-510 My-Je '62. (MIRA 15:7)

(Numerical calculations) (Kopal, Z.)

Transcondental functions by A.Kratzer, Walter Franz. Reviewed by M.K.Kerimov. Zhur.vych.mat.i mat.fiz. 2 no.4:727 J1-Ag

162. (NIRA 15:8)

(Franz, Walter)

KERIMOV, M. K.

"Guide to tables in mathematical statistics" by J. A. Green-wood, H. O. Hartley". Reviewed by M. K. Kerimov. Zhur. vych. mat. i mat. fiz. 2 no.5:959 S-0 '62. (MIRA 16:1)

(Mathematical statistics-Tables, etc.)

Selected works by L.Tonelli. Reviewed by M.K.Kerimov. Zhur. vych.mat.i mat.fiz. 3 no.28413-414 Mr-Ap '63. (MIRA 1624) (Mathematics) (Tonelli,L.)

KERIMOV, M.K.

"Discrete variable methods in ordinary differential equations" by P.Henrici. Reviewed by M.K.Kerimov. Zhur.vych.mat.1 mat.fiz. 3 no.2%414-415 Mr-Ap '63. (MIRA 16:4) (Differential equations) (Henrici, P.)

THE CHARGE STATE OF THE SECTION OF T

KERIMOV, M. K., KOL CHUZHKIN, A. M.

"The 3-j and 6-j symbols" by M. Rotenberg and others. Reviewed by M. K. Kerimov, A. M. Kol'chuzhkin. Zhur. vych. mat. i mat. fiz. 2 no.5:959-960 S-0 '62. (MIRA 16:1)

(Angular momentum(Nuclear physics))
(Rotenberg, M.)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721530004-9"

"APPROVED FOR RELEASE: 06/13/2000 C

CIA-RDP86-00513R000721530004-9

"An index of mathematical tablets" by A. Fletcher and others. Reviewed by M.K. Korimov. Zhur. vych. mat i mat fiz. 3 no.6:1141-1142 N-D '63.

Bibliography.

Ibid:1144-1147

(MIRA 17:1)

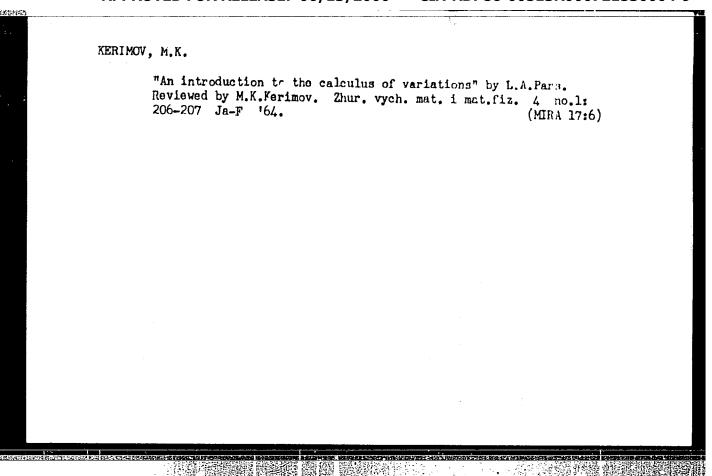
KERIMOV, M.K.

"Construction of geodetic fields in the large for variational problems with multiple integrals" by R. Klotzler. Reviewed by M.K. Kerimov. Zhur. vych. mat. i mat. fiz. 3 no.4:795 Jl-Ag *63.

"Tables of elliptic integrals" by V.M. Beliakov, R.I. Kravtsova, M.G. Rappoport. Reviewed by M.K. Kerimov. 795-796

Bibliography. 797-800

(MIRA 16:7)



KERIMOV, M.K.

"Russian reader in pure and applied mathematics." by P.H. Nidditsh. Reviewed by M.K. Kerimov. Zhur. vych. mat. 1 mat. fiz. 4 no.5:980 S-0 '64. (MIRA 17:12)

KERIMOV, N.

Study of the rate and degree of rachitic changes in young children under conditions of Apsheron (Buzovny). Sbor. trud. Azerb. nauch.-issl. inst. kur. i fiz. metod. lech. no.9: 202-207 '63. (MIRA 18:8)

ACC NR: AF7003516

(M,N)

SOURCE CODE: UR/0113/67/000/001/0008/0011

AUTHORS: Kerimov, N. A. (Candidate of technical sciences); Mekhtiyev, R. I. (Candidate of technical sciences)

ORG: Azerbaidzhan Polytechnic Institute (Azerbaydzhanskiy politekhnicheskiy institut)

TITLE: An engine with fuel injection and forechamber jet ignition '

SOURCE: Avtomobil'naya promyahlennost', no. 1, 1967, 8-11

TOPIC TAGS: internal combustion engine, engine combustion system, engine fuel system, engine ignition system, engine performance characteristic, engine test facility, engine, injector, fuel pump, test stand, gasoline, fuel injection, fuel ignition / 1 MCh 10.5-13 engine, FSh 1.5 x 15 degree injector, A-72 gasoline, TN8.5 x 10 fuel pump, KO 1608 test stand, Volga M-21 engine

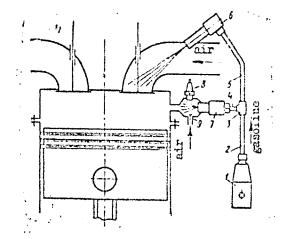
ABSTRACT: A system of fuel injection and forechamber jet ignition of a gasoline engine was studied. Figure 1 shows the injection-measuring piston pump. The main injector (6) is of a closed type while the secondary (forechamber) injector (7) is of the open type. The spark plug (8) ignites the forechamber, and the blow-through check valve (9) allows fresh air to sweep the gases out of the forechamber. The fuel consumption of the main injector (6) varies widely over the engine operating range, while the consumption of injector (7) hardly changes. Optimum conditions under full power call for a fuel consumption of 15—20% of the total by the forechamber injector (7). A 1 MCh 10.5/13 engine

Card 1/3

UDC: 621.43-43.043.

ACC NR: AP7003516

Fig. 1. Diagram of an engine fuel supply with gasoline injection and forechamber ignition



had one cylinder changed to this type fuel system so that it could be compared with a standard carbureter system in the other cylinders. A-72 gasoline was injected through a FSh 1.5 x 15° injector. The engine compression was 6.1, and the engine operation was monitored by an oscillograph, amplifier, and piezoquartz detector. Tests were run on a KO-1603 stand, using fuel pump TN8.5 x 10. The excess air coefficient ranged within

Card 2/3

ACC NR: AP7003516

acceptable values. Tests at 1000, 1200, and 1500 rpm showed smoother operation with less sensitivity to the maximization of the engine parameters for the injection system. Fuel consumption for the injector was 2%—235 g/hp while the carburetor system called for 255—260 g/hr. The injector also produced 15—20% more power. The system shows premise and will be tested further on the Volga M-21 automobile engine. Orig. art. has: 6 figures.

SUB CODE: 21/ SUBM DATE: none/ ORIG REF: CO2

Card 3/3

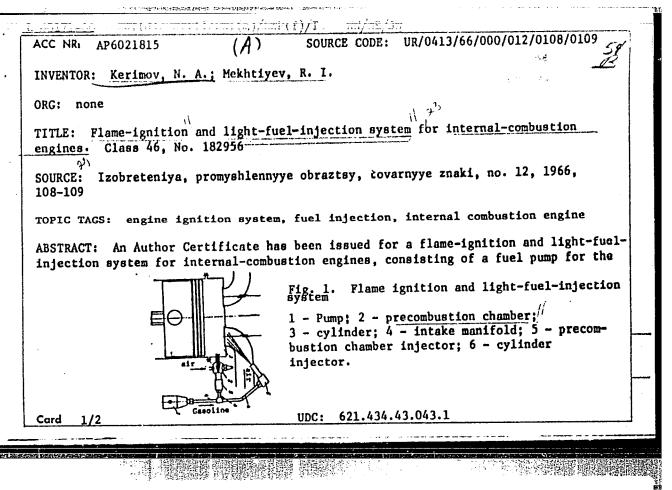
APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721530004-9"

KERIL-OV, II. A.

"A Fuel Mixer for Obtaining Optimum Regulation of the Operation of a Generator-Gas Motor Vehicle or Tractor Engine With External (Outside the Cylinder) Mixture Formation." Cand Tech Sci, Azerbaydzhan Industrial Instimeni Azizbekov, 6 Dec 54. (BR, 18 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55



parallel feed of fuel to the injectors in the precombustion chamber and cylinder (in the intake manifold) (see Fig. 1). For the purpose of optimum carburetion under changing conditions, an open injector is used in the precombustion chamber, thus assuring constant fuel delivery under all operating conditions. A closed injector is used in the cylinder (in the intake manifold) to assure variable fuel feed relative to engine operating conditions. Orig. art. has: 1 figure. [WS]

SUB CODE: 21/ SUBM DATE: 02Apr65/ ATD PRESS: 5049

YUDOVICH, V.G.; KHLEBORODOV, A.D.; SOLONEVICH, Ye.A.; VEYTS, V.L.;

PANOV,F.S.; BELYAYEV, A.N.; ALAD'IN, O.I., GSIFCY, V.F.;

VOROB'YEV, A.I.; PROKOF'YEV, YU.V.; SOLOV'YEV, YU.A.;

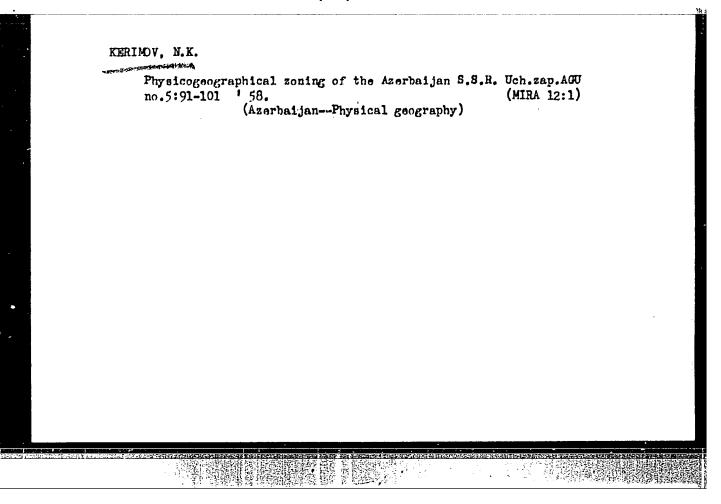
KUZ'MIN, A.V.; ZHIDONIS, V.YU.; ZOLIN, A.V.; YATOV YE.F.;

DOBROSLAVSKIY, V.L.; TROFIMOV, Ye.N.; DRYAGIN, Ye.R.;

KOROLEV, V.F.; KERIMOV, N.B.; KRAVCHENKO, A.S.; RYVLIN, V.A.;

GURCHENKO, A.P.; KRUGLIKOV, T.P.; CHERNYAKOV, F.A.; ARKEIFOV, N.K.

Authors certificates and patents. Mashinestroenie no.1:101-103 Ja-F (65. (MIRA 16:4)



KERIMOV, N.K.

Experimental investigation of the change in the velocity and the hydrodynamic pressure in a well when hoisting a drilling tool. Izv. vys. ucheb. zav.; neft' i gaz 7 no.7:64 164.

(MIRA 17:9)

1. "AzNIIburneft'".

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721530004-9"

8/058/61/000/012/034/083 A058/A101

AUTHOR:

Kerimov, O. K.

TITLE:

Effect of impurities on spectral line intensity

PERIODICAL: Referativnyy zhurnal, Fizika, no. 12, 1961, 249, abstract 12G195 ("Uch. zap. Azerb. un-t. Fiz.-matem. i khim. ser.", 1959, no. 6,

25-35, Azerb., Russian summary)

Incident to spectral analysis of galenite of the Mekhmanskiy TEXT: deposit a weak trace of the germanium line was detected. To investigate the effect of individual factors on the Ge line intensity, S, Se and Te were chosen as impurities. Determination of Ge line intensity with and without impurities gives reason to infer the following: 1.if impurity excitation energy is higher than that of the investigated element, the latter's line intensity wanes; 2 its line intensity also decreases in the event that impurity volatility is the greater, self-consistency being observed even for small concentrations.

[Abstracter's note: Complete translation]

Card 1/1

S/058/62/000/005/041/119 A001/A101

AUTHORS:

Kerimov, O. K., Kadymova, F. A.

TITLE:

Effect of gas composition on spectral line intensities at thermal

excitation

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 5, 1962, 16, abstract 5V105

("Uch. zap. Azerb. un-t. Fiz.-matem. i khim. ser.", 1960, no. 6,

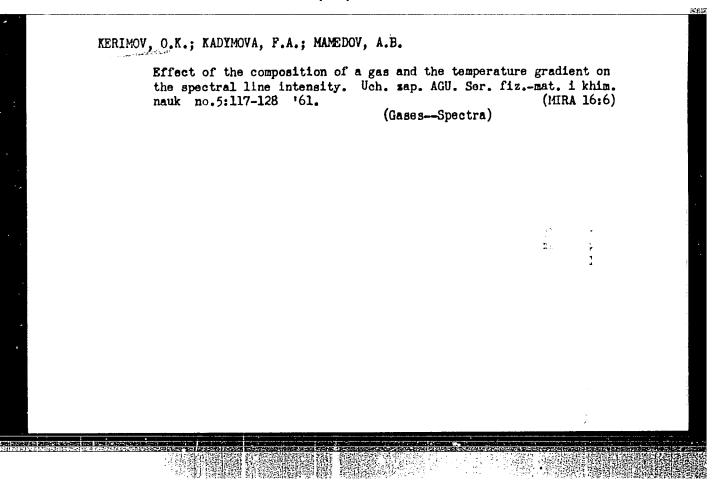
33-38)

TEXT: The authors investigated the effect of admixtures on intensities of gas spectral lines. Sn, Sb and Ga were taken as elements being studied, and carbon, galenite and sphalerite as bases. The test substance was excited by an arc produced by a $\Pi\Gamma$ -2 (DG-2) a-c generator with addition of elements possessing a low ionization potential, such as NaCl, KCl, RuCl and KClO3.

Ye. Pshenichnov

[Abstracter's note: Complete translation]

Card 1/1



KERIMOV, P. A.

MERIMOV, P. A.: "An attempt to improve hybrid sheep in the azid zone of the steppes of the Transvolgo and bral region toward producing fine-wooled varieties." All-Union Sci Res Inst of Animal Husbandry. Makhachkala, 1956. (Dissertion for the Degree of Candidate in Agricultural Sciences.)

Knizhnaya letopis', No. 39, 1956. Moscow.

KERIMOV, R.G.

Movement of a viscoplastic fluid through annular space. Izv. vys. ucheb. zav.; neft' i gaz 8 no.3:33-36 '65. (MIRA 18:5)

1. Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721530004-9"

YAKUBOV, A.A., KERIMOV, K.M.

Method for determining the absolute permonbility of petroleumbearing rocks from their specific resistance. Izv.vys. ucheb. zav.; noft! i gaz 6 no.11:3-5 *63. (MIR, 17:9)

1, Azərbaydzhanskiy institut nefti i khimil im. M. Miztəkova.

YAKUBOV, A.A.; KERIMOV, R.M.

Method for determining the permeability of oil-bearing rocks from data on the specific resistance. Izv. vys. uchet. zav.; neft' i gaz 7 no.3:11-14 '64. (MIRA 17:6)

1. Azerbaydzhanskiy institut nefti i khimii imeni Azizbekova.

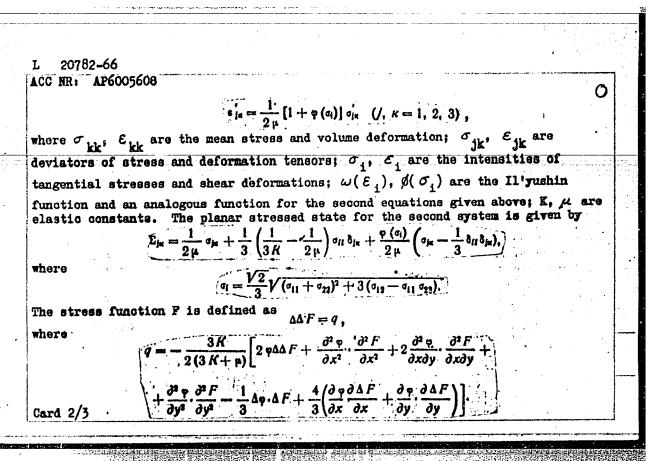
SUKOMEL, A.S., kand. tokhn. nauk; TSVETKOV, F.F., inzh.; KERIMOV, R.V., inzh. local heat transfer from a heated pipe wall to a turbulent gas flow carrying suspended graphite particles. Trudy MEI no.63:17-26 '65. (MIRA 18:12)

KERIMOV, R.Yu.

Polariscopic method for studying the stresses in a circular disc with grooves. Uch. sap. AGU. Ser. fiz.-mat. i khim. nauk no.5: 43-49 '61. (Elastic plates and shells) (Strains and stresses)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721530004-9"

). 		
7 1	L 20782-66 EWT(d)/EWT(m)/EWP(w) IJP(c) EM	ļ
	ACC NR: AP6005608 SOURCE CODE: UR/0233/65/000/003/0068/0073	
X .	AUTHORS: Kerimov, R. Yu.; Khoroshun, L. P.	
	ORG: none	
;:	TITLE: The elastoplastic stressed state of a plate with an opening	-
	SOURCE: AN AzerbSSR. Izvestiya. Seriya fiziko-tekhnicheskikh i matematicheskikh nauk, no. 3, 1965, 68-73	
3)	TOPIC TAGS: flat plate, stress measurement, stress analysis, elastic stress, plastic strength, plastic deformation, elastic deformation ABSTRACT: The stressed state and plastic zones around an opening in a plate are studied for materials with hardening. The work is based on the theory of small elasto-plastic deformations (A. A. Il'yushin. Plastichnost', Gostekhizdat, 1948). The stress deformation condition is expressed as $\sigma_{KK} = 3 K \epsilon_{KK},$ $\sigma_{KK} = 2 \mu [1 - \infty (\epsilon_1)] \epsilon_{KK}^{\dagger} (j, K = 1, 2, 3)$	
	or	
	$\epsilon_{\rm KK} = \frac{1}{3K}\sigma_{\rm KK}$	_
	Card 1/3	2
e salas area sere	And Thomas And the second seco	وسوائا ي
imonsiasi		8/2



ł	particular) biaxial str function F	6005606 may be y suite essed s is tra	used for d to numerate of aformed	a plate with to ordinary	by successive de on a digite a circular of differential of the method of the accession of the contract of the	pening is squation	developed form for an	The distance of the contract o	at P
	into a syst solution of 15 equation	tem of the second of the secon	two ordinet 2 Ligures	lems is saved	ne Boundary 1 for subsequent CRIO REF: 01	nt public	s are state ations. ?	id. Th	e, hast
	· · · · · · · · · · · · · · · · · · ·								
	•								
	•					1			

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721530004-9

27185-66 ACC NR: AP6016882 SOURCE CODE: UR/0198/65/001/009/0128/0130 44 AUTHOR: Kerimov, R. Yu. (Kiev) ORG: Kiev State University (Kiyevskiy gosudarstvennyy universitet) TITLE: Development of plastic regions near a circular opening during uniaxial stretching of a plate SOURCE: Prikladnaya mekhanika, v. 1, no. 9, 1965, 128-130 TOPIC TAGS: nonlinear equation, material deformation, ordinary differential equation, digital computer ABSTRACT: The author proposes a method for calculating the development of plastic zones near a circular opening in a reinforced plate for the case of uniaxial tension. A nonlinear equation is derived on the basis of the expression for the stress as a function of deformation for the case of the plane stressed state. The Galerkin method is then used to reduce this nonlinear equation to a system of two ordinary differential equations. These equations were solved on a digital computer using the method of successive approximations. A specific example of application of the method is given. Orig. art. has: 3 figures, 8 formulas, and 1 table. [JPRS] SUB CODE: 12, 20 / SUBM DATE: 07Apr65 / ORIG REF: 007

STRAKHOVSKAYA, Ye., kand. sel'skokhoz. nauk; KFRIMOV, S., mladshiy nauchnyy sotrudnik

- Professional designation of the second sec

Protecting sweet cherries from the cherry fruit fly Rhagoletis cerasi L. Zashch. rast. ot vred. 1 bol. 10 no.7:53 '65. (MIRA 18:10)

1. Dagestanskiy nauchno-issledovatel'skiy institut sel'skogo khozyaystva.

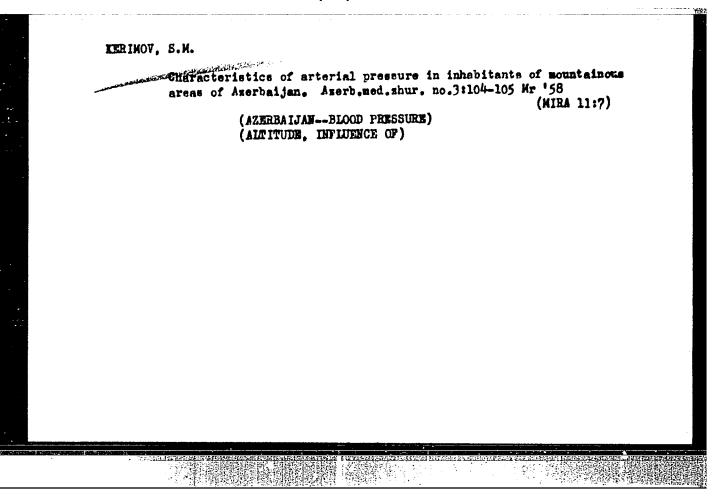
* KHRIMOV D.M., maslumhennyy deyatel' nauki, prof., IRANI, M., kand.med.nauk KERIMOV, S. M.

Dynamics of cardiovascular diseases and prophylactic measures.
Amerbamedahura no.2:63-68 F 158 (MIRA 11:12)

1. Is gspital'noy terapevticheskoy kliniki (russkogo sektora)
(sav. - saslyshennyy deyatel' nauki, prof. D.M. Abdulayev)
Aserbaydzhanskogo gosudarstvennogo meditisnskogo instituta im.
H. Harimanova (direktor - saslushennyy dayatel' nauki, prof. B.A.
Eyvasov).

(CARDIOVASCULAR SYSTEM--DISEASES)

* KERIMOV D. M Should be ABDULAYEV D. M.



Hemodynamic and basal metabolism changes in anemia in connection with blood transfusion. Azerb.med.zhur. no.3:66-72 Kr '59. (MIRA 12:6) 1. Iz kafedry gospital'noy terapii russkogo sektora (zav. kafedroy - zasluzh.deyatel'nauki, prof.D.M.Abdullayev) Azerbaydzhanskogo gosudarstvennogo meditsinskogo instituta in. N.Narimanova. (BLOOD--CIRCULATION) (ANEMIA) (METABOLISM)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721530004-9"

KERIMOV, S. M., Cand Med Sci -- (diss) "Changes in the cardio-vascular system in anemias in connection with blood transfusion."
Baku, 1960. 16 pp; (Azerbaydzhanskiy State Medical Inst im N.
Narimanov); 250 copies; free; (KL, 19-60, 138)

KERIMOV, S.M.

С. М. Керимгв защития 23/VI 1960 г. в Совете Алербайджанского медицинского института диссерт щию на тему «Изменения сероечно-сосудистой системы при анемиях в сылзи с переливанием крови».

о связи с переливвнием крови».

Установлены значительные изменения со стороны кровообращения у больных тяжелой формой анемий, уточнены некоторые натогенетические механизмы влияния гемотрансфузии на состояние сердечно-сосудистой системы и доказана обратимость этих нарушений у значительной части больных. Предложены рациональные методики комплексного лечения.

Candidate of Medical Sciences

Dissertations approved by the Higher Attestation Commission in January and February of 1961. Terap. arkh. no.6:117-121 '61

CIA-RDP86-00513R000721530004-9" APPROVED FOR RELEASE: 06/13/2000

KERIMOV, S.M.

Comparative evalutaion of the effectiveness of new diuretic remedies in circulatory insufficiency. Azerb. med. zhur. no.1:35-39 Ja '62. (MIRA 16:5) (DIURETICS AND DIURESIS) (HLOOD—CIRCULATION, DISORDERS OF)

KERIMOV, S.M., starshiy nauchnyy sotrudnik; AKOPYAN, S. Kh., starshiy nauchnyy sotrudnik; TAGIZADE, Z.A., starshiy nauchnyy sotrudnik; ABDULAYEVA, L.D., mladshiy nauchnyy sotrudnik

ः । १९४१ । १ - १३३ स्थापका प्रकारका । १४४ वर कार्याक्षास्त्र १४४ स्थापका स्थापका होत्यः । १४ - १४ - १४ स्थापका

Study of atherosclerosis; cholesterol content of the blood in persons engaged in physical labor. Azerb. med. zhur. 41 no.2: 42-48 F 164 (MIRA 18:1)

l. Iz otdela kardiologii (zav. - chlen-korrespondent AN Azer-baydzhanskoy SSR, prof. D.M. Abdylayev) IEKM AMN SSSR, Baku.

Electrocardiographic shifts in patients with thyrotoxicosis under the influence of various methods of therapy. Report No.2. Azerb. med. zhur. 42 no.2:32-36 F '65. (MIRA 18:7)

THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF

KERIMOV, S.Sh.; DRANITSYNA, Yu.A.

Study of coumarins and furocoumarins of Hippomarathrum caspium Study of coumarins and landscaped. no.5:356-359 '65.
(DC) Grossh. Khim. prirod. soed. no.5:356-359 '65.
(MIRA 18:12)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR. Submitted June 5, 1965.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721530004-9"

自由的**企业的**。2015年11月1日

DRANITSINA, Yu.A.; KERIMOV, S.Sh.; PIGULEVSKIY, G.V.

Furocommarins in fruits of fennel Hippomarathum microcarpum (MB)B Fedtsch. Zhur. prikl. khim. 38 no.5:1172-1174 My 165.

(MIRA 18:11)

1. Botanicheskiy institut AN SSSR.

建筑的建筑是高级的工作。

KERIMOV, S.Sh.

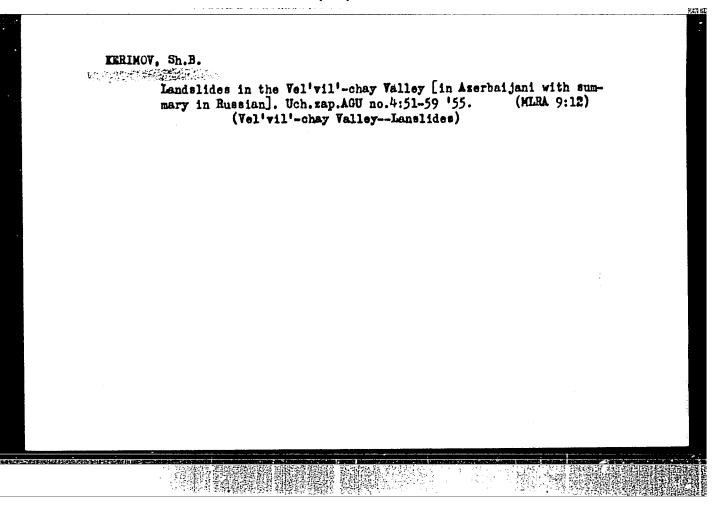
Coumarins and furocoumarins from roots of Hippomarathrum microcarpum (M.B.) B.Fedtsch. Zhur.prikl.khim. 38 no.11:2566-2569 N '65. (MIRA 18:12)

1. Submitted March 18, 1965.

Kerenov, N.K.; Musselbov, M.A.; Errimov, Sh.B.

Karat caverns on the right bank of the Okhchi-chay River [in Azerbaijani with summary in Russian]. Uch.zap.AGU no.2;39-47 (MLRA 9:12)

(Akskyulum Range--Caves)



MUSEIBOV, M.A.; KERIMOV, Sh.B.

Clayer karst of the Tugchay River Basin. Uch. zap. AGU no.5:
31-34 '55. (MLRA 9:12)

(Tugchay Valley--Karst)

15-57-10-14705

Referativnyy zhurnal, Geologiya, 1957, Nr 10, Translation from:

p 223 (USSR)

AUTHORS:

Museibov, M. A., Kerimov, Sh. B., Gasanov, M. M.

TITLE:

Slides on the Northeastern Slope of the Greater Caucasus

in Azerbaidzhan (Ob opolznyakh na severo-vostochnom

sklone Bol'shogo Kavkaza v Azerbaydzhane)

PERIODICAL: Uch. zap. Azerb. un-t, 1956, Nr 7, pp 41-45

ABSTRACT:

In the basin of the Vel'velichay and along the valleys

of the Atagay, Gil'gil'chay, Divichichay, and Shabranchay Rivers, ancient and recent slides are

encountered, formed in clay horizons of an argillaceouscalcareous complex. A number of them are described. The author points out that the slides should be studied as complex features, considering not only the climatic, lithologic, geomorphic, and hydrogeological factors, but also the seismicity of the region. The climatic

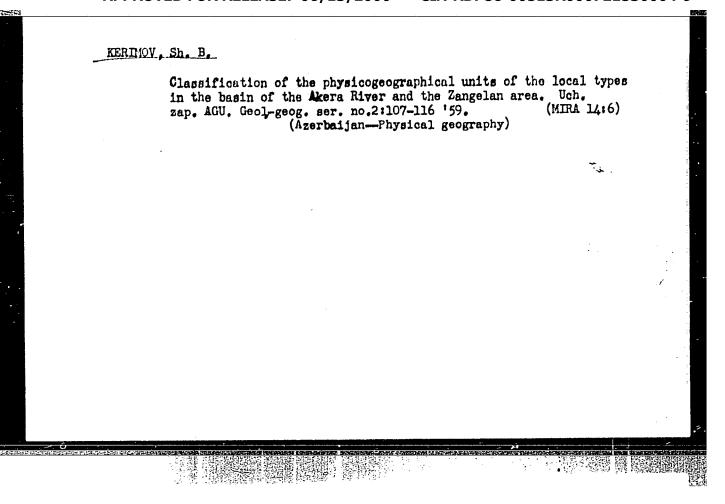
Card 1/2

factor carries special significance. The authors note

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721530004-9" Slides on the Northeastern Slope of the Main (Cont.)

that slides in this region frequently move in a direction that does not coincide with the dip of the beds. Card 2/2 N. S. Gustomesova

學學學學 医非原理性神经 医神经神经



14-57-6-11862

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,

p 31, (USSR)

3 / 海洋的原理的 多层层 对对原则 经经济的

AUTHOR:

Kerimov, Sh. B.

TITLE:

Sand Relief of the Apsheron Peninsula (Rel'yef peskov

Apsheronskogo poluostrova -- in Azerbaidzhan)

PERIODICAL: Uch. zap, Azerb. un-ta, 1956, Nr 9, pp 35-45

ABSTRACT:

In recent years the area of sand on the Apsheron peninsula has increased, due to the fact that the level of the Capsian Sea was lowered, the climate grew more arid, gales became more frequent, man was active in building highways and opening quarries, etc. More than 3 000 hectares are covered with mobile sand. Underdeveloped dunes from 1.5 m to 2 m high are found in the interior of the peninsula, where the sand is formed by Tertiary rock weathering. The form of the sand relief is determined by mechanical composition of weathered rocks. Coastal dunes from 14 m to 15 m high are made

Card 1/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000221530004-9 ' Sand Relief of the Apsheron Peninsula (Cont.)

mainly of marine sand. On the north coast, where gales blow from 106 to 139 days a year, large sand relief forms develop, and parallel sand ridges are located. G. K. Card 2/2

Geomorphology of the southeastern foothills of the Lesser Caucasus; interfluve of the Akera and the Gendelanchay. Uch.zap.ACU. interfluve no.3:69-78 '60. (MIRA 14:6) (Caucasus--Physical geography)

KERIMOV, Sh. B.; KISIN, I. M.; AGAYEV, Sh. M.

Distribution of atmospheric precipitation in the Kishbay basin based on the data of total precipitation gauges. Uch. zap. AGU. Geol.-geog. ser. no.1:71-78 162.

(MIRA 16:1)

(Kishchay Valley-Precipitation(Matherology))

The second secon

KERIMOV, T.M.

Solving a boundary problem for polyharmonic equations. Uch. zap.AGU.Fiz.-mat.i khim.ser. no.1:49-61 *59.

(MIRA 13:6)

(Integral equations)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721530004-9"

11 2500

314583 5/044/62/000/001/029/061 C111/C444

AUTHOR:

Kerimov, T. M.

TITLE:

On a boundary value problem for elliptic equations

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 1, 1962, 49-50, abstract 1B236. ("Uch. zap. Azerb. un-t. Fiz.-matem. i

khim. ser.", 1959, no. 4, 9-20)

TEXT: Let S^+ be a finite closed simply connected domain which is bounded by a simple smooth closed curve L, and let S^{-1} be the infinite domain outside of L. Searched is a real function u(x,y), satis-

fying in St the equation

$$\Delta^{n}u + \sum_{k=1}^{n} \sum_{p,q=0}^{p+q \leq k} A_{pq}^{(k)}(x,y) \frac{\partial^{p+q}}{\partial x^{p}\partial y^{q}} (\Delta^{n-k}u) = 0$$

in S^{-1} the equation

$$\triangle^{n}_{u} = 0$$

on L the boundary conditions

Card 1/3